



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/975,332	10/10/2001	Naoyuki Goto	645-150	2695		
75	7590 01/27/2004			EXAMINER		
James V. Cost	igan, Esq. 3SON & COSTIGAN, P.0	BLACKWELL RUDASIL, GWENDOLYN A				
Suite 2003	3011 & COSTIOAN, 1 .C	ART UNIT	PAPER NUMBER			
1185 Avenue of		1775	9			
New York, NY	10036-2646	DATE MAILED: 01/27/2004	, /			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appli	cation No.	Applicant(s)		
Office Action Summary		09/9	75,332	GOTO, NAOYUKI		
		Exam	niner	Art Unit		
			ndolyn A. Blackwell-Rudasill	1775		
Period fo	The MAILING DATE of this commu or Reply	nication appears o	n the cover sheet with the	correspondence address		
THE - External after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN misions of time may be available under the provision SIX (6) MONTHS from the mailing date of this cone period for reply specified above is less than thirty period for reply is specified above, the maximum are to reply within the set or extended period for repreply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	NICATION. s of 37 CFR 1.136(a). In munication. (30) days, a reply within the statutory period will apply a ly will, by statute, cause the	no event, however, may a reply be t e statutory minimum of thirty (30) da and will expire SIX (6) MONTHS fror e application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication (35 U.S.C. § 133).	ation.	
1)⊠	Responsive to communication(s) fi	led on <u>06 Novemb</u>	<u>er 2003</u> .			
2a) <u></u> ☐	This action is FINAL .	2b)⊠ This action	is non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	Claim(s) 38-69 is/are pending in th	e application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>38-69</u> is/are rejected.					
7)	Claim(s) is/are objected to.		•			
8)	Claim(s) are subject to restr	iction and/or electi	on requirement.			
Applicat	ion Papers	·			•	
9)[The specification is objected to by t	he Examiner.				
10)[The drawing(s) filed on is/are	e: a)∐ accepted o	or b)□ objected to by the	Examiner.		
	Applicant may not request that any obj					
. —	Replacement drawing sheet(s) including	~				
	The oath or declaration is objected	to by the Examine	r. Note the attached Offic	e Action or form PTO-152		
•	under 35 U.S.C. §§ 119 and 120					
	Acknowledgment is made of a clair ☐ All b)☐ Some * c)☐ None of:			a)-(d) or (f).		
	 Certified copies of the priorit Certified copies of the priorit Copies of the certified copies application from the Internati See the attached detailed Office acti Acknowledgment is made of a claim 	y documents have s of the priority doc onal Bureau (PCT on for a list of the	been received in Applica cuments have been receiv Rule 17.2(a)). certified copies not receiv	ed in this National Stage ed.	cation)	
s 3	ince a specific reference was includ 7 CFR 1.78. ı)	ed in the first sente	ence of the specification of	or in an Application Data S		
14)⊠ A	Acknowledgment is made of a claim eference was included in the first se	for domestic priori	ty under 35 U.S.C. §§ 12	0 and/or 121 since a spec		
Attachmen	nt(s)					
	ce of References Cited (PTO-892)			y (PTO-413) Paper No(s)	_·	
	ce of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449)		5) Notice of Informal 6) Other:	Patent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 38-53 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Claims 38, 43, and 48 recite "one or more ingredients selected from the group consisting of MgO, CaO, SrO, BaO, and ZnO in the total amount of 3-15%". Each of the claims also includes the limitation of being substantially free of at least CaO. These limitations are contradictory and render the claims indefinite. Please clarify. To further prosecution of the application, the claims have been interpreted as to include CaO.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 54-57, 59-62, and 64-68 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent no. 4,390,638, Mennemann et al.

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Regarding claims 54-57, 59-62, and 64-68, Mennemann et al discloses an optical glass having a composition commensurate with that of the instant claims, specifically (weight percent):

18-36%	SiO_2
3-18%	B_2O_3
0-14%	Na ₂ O
7-25%	CaO
3-14%	TiO_2

The glass has a coefficient of thermal expansion of 90-98 x 10⁻⁷/°C over the temperature range of 20-300°C. The lower range of ingredients from the group consisting of MgO, CaO, SrO, BaO, and ZnO is 15%, (columns 1-2, lines 45-68). The limitation "for a light filter" is considered intended use and does not define over the prior art of record.

Regarding claims 55-57, 60-62, and 65-67, a chemical composition and its properties are inseparable. *MPEP 2112.02*. As Mennemann discloses a glass composition commensurate with the present claims, it is fully expected that the glass would also possess similar characteristics. Absent an evidentiary showing to the contrary, the addition of physical properties to the claim language fails to distinguish the present claims over the prior art of record.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 58, 63, and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent no. 5,719,989, Cushing in view of United States Patent no. 4,390,638, Mennemann et al.

Cushing discloses a light filter wherein the substrate is made from a "wide variety of materials including by not limited to glass", (columns 5-6, lines 65-2). The light filter is comprised of dielectric layers made of materials such as silicon dioxide, tantalum pentoxide, niobium oxide and aluminum oxide, which are stacked in the glass substrate. Cushing does not disclose the specific composition of the glass substrate.

Mennemann et al disclose an optical glass having a composition commensurate with that of the instant claims. Specifically, in weight percent:

18-36%	SiO ₂
3-18%	B_2O_3
0-14%	Na ₂ O
7-25%	CaO
3-14%	TiO_2

as well as having a coefficient of thermal expansion of 90-98 x 10⁻⁷/°C over the temperature range of 20-300°C. The lower range of ingredients from the group consisting of MgO, CaO, SrO, BaO, and ZnO is 15%, (columns 1-2, lines 45-68). Mennemann et al clearly disclose the use of the glass composition in optical systems wherein the glass is lightweight, acid proof, and hydrolysis resistant, (column 1, lines 7-45), but does not specifically give an example of the glass used as a light filter.

Because Cushing discloses that a wide variety of materials, such as glass, can be used as the substrate and the glass composition of Mennemann et al can be used in optical systems, it would have been obvious to one skilled in the art at the time of invention to modify the light filter of Cushing with the glass substrate of Mennemann et al to create an optical system that is

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lightweight, acid proof and hydrolysis resistant, (Mennemann et al, column 1, lines 7-9), while at

the same time providing light filtering functions.

Allowable Subject Matter

Claims 38-53 would be allowable if rewritten or amended to overcome the rejection(s) 7.

under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gwendolyn A. Blackwell-Rudasill whose telephone number is

(571) 272-1533. The examiner can normally be reached on Monday - Thursday; 6:00 am - 4:30

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Gwendolyn A. Blackwell-Rudasil

Examiner

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